

ABSTRACT OF THE DISCLOSURE

A non-aqueous electrolyte rechargeable battery including: (a) a positive electrode capable of charging and discharging lithium; (b) a negative electrode capable of charging and discharging lithium; (c) a separator or a lithium ion conductive layer interposed between the positive electrode and the negative electrode; and (d) a lithium ion conductive non-aqueous electrolyte, wherein the positive electrode contains a mixture of a first positive electrode active material and a second positive electrode active material, the first positive electrode active material includes lithium oxide containing manganese, the lithium oxide further contains aluminum and/or magnesium, and the second positive electrode active material includes $\text{Li}_x\text{Co}_{1-y-z}\text{Mg}_y\text{Al}_z\text{O}_2$ where $1 \leq x \leq 1.03$, $0.005 \leq y \leq 0.1$ and $0.001 \leq z < 0.02$.